



1

SEQUENCE LISTING

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Layer, Richard T.
McCabe, R. Tyler
Jones, Robert M.
Cognetix, Inc.

<120> Uses of Kappa-Conotoxin PVIIA

<130> Kappa-PVIIA

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<150> US 60/219,438

<151> 2000-07-20

<150> US 60/155,135

<151> 1999-09-22

<160> 25

<170> PatentIn Ver. 2.0

<210> 1

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<213> Conus purpurascens

<220>

<221> PEPTIDE

<222> (1)..(27)

<223> Xaa at residue 2, 7, 18, 19, 22 and 25 may be Arg, homoarginine, ornithine, Lys, N-methyl-Lys, N,N-dimethyl-Lys, N,N,N-trimethyl-Lys, any synthetic basic amino acid, His or halo-His; Xaa at

<220>

<221> PEPTIDE

<222> (1)..(27)

<223> residue 4 may be Pro or Hyp; Xaa at residue 9 and 23 may be Phe, Tyr, meta-Tyr, ortho-Tyr, nor-Tyr, mono-halo-Tyr, di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr, nitro-Tyr, Trp (D or L), neo-Trp,

<220>

<221> PEPTIDE

<222> (1)..(27)

<223> halo-Trp (D or L) or any synthetic aromatic amino acid; Xaa at residue 11 is His or halo-His

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Cys Xaa Ile Xaa Asn Gln Xaa Cys Xaa Gln Xaa Leu Asp Asp Cys Cys
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Ser Xaa Xaa Cys Asn Xaa Xaa Asn Xaa Cys Val
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INS
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Ser Arg Lys Cys Asn Arg Phe Asn Ala Cys Val
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Ser Arg Lys Cys Asn Arg Phe Asn Lys Cys Val
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<223> Xaa is Hyp

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Ser Arg Lys Cys Asn Arg Phe Asn Lys Cys Val
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<223> Xaa is Hyp

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1 5 10 15

Ser Arg Lys Cys Ala Arg Phe Asn Lys Cys Val
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<223> Xaa is Hyp

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Cys Arg Ile Xaa Asn Gln Lys Cys Phe Gln His Leu Asp Asp Cys Cys
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Ala Arg Lys Cys Asn Arg Phe Asn Lys Cys Val
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Ser Arg Lys Cys Asn Arg Phe Ala Lys Cys Val
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Ser Arg Lys Cys Asn Arg Phe Asn Lys Cys Val
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Ser Arg Lys Cys Asn Arg Phe Asn Lys Cys Val
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<400> 23
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1 5 10 15
Ser Arg Lys Cys Asn Arg Phe Asn Lys Cys Ala
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<400> 24
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Ser Arg Lys Cys Asn Arg Phe Asn Lys Cys Val
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1 5 10 15

INS
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Ser Arg Lys Cys Asn Arg Phe Asn Lys Cys Val
20 25
